

Electrically controllable tilt

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : NIPPON TELEGR & TELEPH
CORP <NTT>

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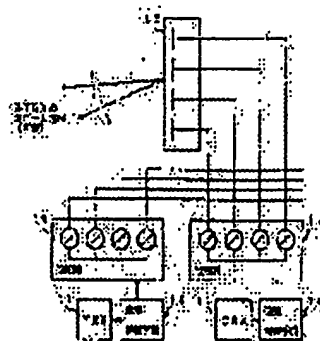
(72)Inventor : FUJII TERUYA

(54) ANTENNA BEAM CONTROL SYSTEM

(57)Abstract:

PURPOSE: To improve the frequency utilization efficiency by monitoring the reception level of a base station or a mobile station or both the base station and the mobile station during talking so as to control a tilting angle in which the reception level versus interference wave level ratio of a same channel is maximized in response to the reception level.

CONSTITUTION: A base station is provided with a beam tilting antenna 12 tilting electrically the in-vertical plane directivity in the direction of an elevating angle at every transmitter-receiver (TRX) 11 corresponding to each channel. Moreover, the system is provided with a phase shifter 13 and a phase control means 14 setting and controlling the tilting angle of the antenna 12 and the means 14 connected to the TRX 11 monitors a reception level and talking quality respectively. The position and the talking quality of a mobile station with respect to a base station are decided in response to the reception level and the talking quality to set a relevant tilting angle. Thus, the same channel interference is reduced and the frequency utilization efficiency is improved.



LEGAL STATUS

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*Is the phase shifter impl
described. Can it be
positioned in the antenna*

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